

Title (en)

METHOD OF PREPARING HIGH CHIRAL PURITY LACTAM INTERMEDIATE AND BRIVARACETAM

Title (de)

VERFAHREN ZUR HERSTELLUNG VON LACTAMZWISCHENPRODUKT UND BRIVARACETAM MIT HOHER CHIRALER REINHEIT

Title (fr)

PROCÉDÉ DE PRÉPARATION D'UN INTERMÉDIAIRE DE LACTAME ET DE BRIVARACÉTAM DE HAUTE PURETÉ CHIRALE

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Application

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Abstract (en)

The invention discloses a method of preparing a high chiral purity lactam intermediate and brivaracetam. The invention provides a method of preparing a lactam intermediate compound represented by molecular formula D, the method comprising a step of reducing a compound C to a lactam intermediate D in a solvent by hydrogenation reduction using a heavy metal catalyst and a chiral inducer. Brivaracetam can be prepared with a single step using the lactam intermediate compound represented by molecular formula D of the present invention. The synthesis route is short, reaction conditions are mild, post-treatment is simple, reaction yield is high, chiral selectivity is good, and production cost is low. The conversion rate of the compound C in the reaction is 81%, and the DE value of the compound D is more than 99.0%, which is suitable for industrial production.

IPC 8 full level

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